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         JUN 26
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         JUN 29
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                 Truncation (SLART) to AB, CLM, MCLM, and TI fields
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NEWS 10 JUL 16 GBFULL adds patent backfile data to 1855
NEWS 11 JUL 21 USGENE adds bibliographic and sequence information
NEWS 12 JUL 28 EPFULL adds first-page images and applicant-cited
                 references
NEWS 13 JUL 28
                INPADOCDB and INPAFAMDB add Russian legal status data
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                 ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS 17
         AUG 24 CA/CAplus enhanced with legal status information for
                 U.S. patents
NEWS 18
        SEP 09
                50 Millionth Unique Chemical Substance Recorded in
                 CAS REGISTRY
NEWS 19 SEP 11 WPIDS, WPINDEX, and WPIX now include Japanese FTERM
                 thesaurus
NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
             AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.
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                                                    0.66
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=> s safinamide
L1
            2 SAFINAMIDE
=> d 11 1-2
    ANSWER 1 OF 2 REGISTRY COPYRIGHT 2009 ACS on STN
    202825-46-5 REGISTRY
ED
   Entered STN: 19 Mar 1998
   Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-,
    methanesulfonate (1:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:
   Propanamide, 2-[[[4-[(3-fluorophenyl)methoxylphenyl]methyl]amino]-, (2S)-,
CN
    monomethanesulfonate (9CI)
   Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (S)-,
    monomethanesulfonate
OTHER NAMES:
    (S)-2-[[4-[(3-Fluorobenzyl)oxy]benzyl]amino]propanamide methanesulfonate
CN
CN
    NW 1015
CN
    PNU 151774E
CN
    Safinamide mesvlate
FS
    STEREOSEARCH
MF
    C17 H19 F N2 O2 . C H4 O3 S
SR
LC.
    STN Files:
               ADISINSIGHT, BIOSIS, CA, CAPLUS, CHEMCATS, EMBASE,
      IMSPATENTS, IMSRESEARCH, IPA, MRCK*, PROUSDDR, TOXCENTER, USPATFULL
        (*File contains numerically searchable property data)
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CRN 133865-89-1 CMF C17 H19 F N2 O2

Absolute stereochemistry. Rotation (+).

CM 2

CRN 75-75-2 CMF C H4 03 S

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

25 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

25 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2009 ACS on STN

RN 133865-89-1 REGISTRY

ED Entered STN: 17 May 1991

N Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (S)-OTHER NAMES:

CN (S)-2-[[4-[(3-Fluorobenzyl)oxy]benzyl]amino]propanamide

CN FCE 26743

CN Safinamide

FS STEREOSEARCH

MF C17 H19 F N2 O2

CI COM

SR CA

LC STN Files: ADISINSIGHT, ADISNEWS, BIOSIS, CA, CAPLUS, CASREACT, CBNB, CHEMCATS, CIN, DDFU, DRUGU, EMBASE, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, MRCK*, PHAR, PROMT, PROUSDDR, RIECS*, TOXCENTER, USAN, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

50 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
50 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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FILE COVERS 1907 - 13 Sep 2009 VOL 151 ISS 12 FILE LAST UPDATED: 11 Sep 2009 (20090911/ED) REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

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68 L1
1.2
=> s 12 and parkinson
        31378 PARKINSON
            25 L2 AND PARKINSON
=> d 13 1-25 ibib abs hitstr
L3 ANSWER 1 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:
                     2009:740263 CAPLUS
DOCUMENT NUMBER:
                        151:33925
TITLE:
                        Process for the production of 2-[4-(3- and
                        2-fluorobenzyloxy) benzylamino]propanamides
                        Barbanti, Elena; Caccia, Carla; Salvati, Patricia;
INVENTOR(S):
                        Velardi, Francesco; Ruffilli, Tiziano; Bogogna, Luigi
PATENT ASSIGNEE(S):
                        Newron Pharmaceuticals S.p.A., Italy
                        U.S. Pat. Appl. Publ., 27pp.
SOURCE:
                        CODEN: USXXCO
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                        English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:
     PATENT NO.
                        KIND DATE
                                          APPLICATION NO.
                              20090618 US 2008-338825
20071227 WO 2007-EP5105
                                                                 20081218
     US 20090156678
                       A1
                                                                 20070608
     WO 2007147491
                        A1
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,
            CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI,
             GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG,
             KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG,
            MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT,
             RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR,
             TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
             IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,
             GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM
PRIORITY APPLN. INFO.:
                                           EP 2006-12565
                                                              A 20060619
                                           WO 2007-EP5105
                                                              A2 20070608
OTHER SOURCE(S):
                        CASREACT 151:33925; MARPAT 151:33925
AB There is disclosed a process for obtaining therapeutically active 2-[4-[3-
     and 2-(fluorobenzyloxy)benzyl]amino]propanamides (safinamide and
     ralfinamide) and their salts with pharmaceutically acceptable acids with
     high purity, in particular, with a content of dibenzyl derivs. impurities
     lower than 0.03%, preferably lower than 0.01% by weight The process is
     carried out by submitting the Schiff bases intermediates 2-[4-(3- and
     2-fluorobenzyloxy)benzylideneamino|propanamides to catalytic hydrogenation
     in the presence of a heterogeneous catalyst in a protic organic solvent.
     This process provides safinamide and ralfinamide having reduced in the
     content of impurities, i.e. (S)-2-[[3-(2-Fluorobenzyl)-4-[(2-
     fluorobenzyl)oxy]benzyl]amino]propanamide or
     (S)-2-[[3-(3-Fluorobenzyl)-4-[(3-fluorobenzyl)oxy]benzyl]amino]propanamide
    at lower than 0.01 weight%. Thus, an autoclave was loaded with
    4-(2-fluorobenzyloxy)benzaldehyde (2.0 kg, 8.69 mol), followed by adding a
    solution of L-alaninamide hydrochloride (1.2 kg, 9.63 mol) and triethylamine
    (0.97 kg, 9.63 mol) in methanol (9.5 kg). The mixture was stirred at
     20-25° for about 1 h and then, after seeding it with a few grams of
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to NEWS 9.

(S)-2-[4-(2-fluorobenzyloxy)benzylideneamino]propanamide, the stirring is continued for addnl. 15 min. To the stirred heterogeneous mixture, methanol (1.6 kg) and wet (50% H2O) Pt/C 5% (0.28 kg) were then added at 20-25°. The air was purged from the autoclave with nitrogen and then hydrogen was introduced at 5.0 bar. The reaction mixture was hydrogenated at the pressure of 5.0 bar and temperature of 30-35° for 5 h, cooled to 15° and, after addition of methanol (4.8 kg) and heating to 40-45°, was filtered. The solid was washed with methanol (1.6 kg). The solvent was removed from the combined filtrate under reduced pressure at about 30° and the residue was treated with water (5 L) at 20-25° on cooling and under stirring. The heterogeneous mixture was further cooled to 15-20°, kept at this temperature for 1 h, and then filtered. The collected solid was washed with cool water (4 L) and dried under reduced pressure to give 2.23 kg (85.0% yield) of (S)-2-[4-(2-fluorobenzyloxy)benzylamino]propanamide (ralfinamide) with a HPLC purity of 98.8 (area %) and a C, O-dialkylated product, (S) -2-[3-(2-fluorobenzyl)-4-(2-fluorobenzyloxy) benzylamino] propanamide content of 0.01% by weight 133865-89-1P, (S)-2-[[4-[(3-Fluorobenzyl)oxy]benzyl]amino]propanamide 202825-46-5P, (S)-2-[[4-[(3-Fluorobenzyl)oxy]benzyl]amino]propanamide methanesulfonate RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 2-[4-(3- and 2-fluorobenzyloxy)benzylamino]propanamides by catalytic hydrogenation of 2-[4-(3- and 2-fluorobenzyloxy)benzylideneamino]propanamides (Schiff bases)) 133865-89-1 CAPLUS

Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-

Absolute stereochemistry. Rotation (+).

(CA INDEX NAME)

RN

CN

RN 202825-46-5 CAPLUS
CN Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1 CRN 133865-89-1 CMF C17 H19 F N2 O2

Absolute stereochemistry. Rotation (+).

CM 2

CRN 75-75-2 CMF C H4 O3 S

L3 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2009:738936 CAPLUS

151:77763

DOCUMENT NUMBER:

TITLE:

Process for the production of highly pure 2-[4-(3- or 2-fluorobenzyloxy)benzylamino|propanamides as cytochrome P450 inhibitors and their pharmaceutical compositions and use in the treatment of diseases

INVENTOR(S): Barbanti, Elena; Faravelli, Laura; Salvati, Patricia; Canevotti, Renato; Ponzini, Francesco

English

Newron Pharmaceuticals S.p.A., Italy

PCT Int. Appl., 124pp.

CODEN: PIXXD2 Patent

DOCUMENT TYPE: LANGUAGE:

SOURCE:

PATENT ASSIGNEE(S):

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND APPLICATION NO. DATE DATE 20090618 WO 2008-EP66559 WO 2009074478 A1 W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: EP 2007-23937 A 20071211 CASREACT 151:77763 OTHER SOURCE(S):

- AB The invention relates to the process for obtaining therapeutically active [(fluorobenzyloxy)benzylamino]propanamides, and their salts with high purity. The title compds. were prepared via 0-alkylation of 4-hydroxybenzaldehyde with benzyl halides; the resulting benzyloxybenzaldehydes underwent condensation with alaninamides to give the Schiff bases, which underwent reduction to give the title compds. All the invention compds. were evaluated for their cytochrome P 450 inhibitory activity.
- IT 133865-89-IP RL: IMF (Industrial manufacture); PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 - (production of (benzylamino)propanamides as cytochrome P 450 inhibitors useful in the treatment of diseases via O-alkylation of hydroxybenzaldehyde with benzyl halides followed by reductive amination
- with alaninamides)
 RN 133865-89-1 CAPLUS
 CN Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (25)-

Absolute stereochemistry. Rotation (+).

(CA INDEX NAME)

- IT 202825-46-5P
 - RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 - (production of (benzylamino)propanamides as cytochrome P 450 inhibitors useful in the treatment of diseases via O-alkylation of hydroxybenzaldehyde with benzyl halides followed by reductive amination
- with alaninamides) RN 202825-46-5 CAPLUS
- CN Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-, methanesulfonate (1:1) (CA INDEX NAME)
 - CM 1
 - CRN 133865-89-1 CMF C17 H19 F N2 O2

Absolute stereochemistry. Rotation (+).

CM 2

CRN 75-75-2 CMF C H4 O3 S

- CH3

REFERENCE COUNT:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:523722 CAPLUS

DOCUMENT NUMBER: 150:487794

TITLE: AMPA receptor antagonists for Parkinson's disease and movement disorders

INVENTOR(S): Hanada, Takahisa; Hibi, Shigeki; Miyazaki, Kazuki

Eisai R & D Management Co., Ltd., Japan PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 62pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PAT	ENT :	NO.			KIN	D	DATE			APPL	ICAT	ION	NO.		D	ATE	
WO	2009	0545	44		A1	_	2009	0430		WO 2	008-	JP69	820		2		
	W:	ΑE,	AG,	AL,	AM,	AO,	AT,	AU,	AZ,	BA,	BB,	BG,	BH,	BR,	BW,	BY,	BZ,
		CA,	CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DO,	DZ,	EC,	EE,	EG,	ES,
		FI,	GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,
		KG,	KM,	KN,	KP,	KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	MD,
		ME,	MG,	MK,	MN,	MW,	MX,	MY,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,
		PL,	PT,	RO,	RS,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	ST,	SV,	SY,	TJ,
		TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW		
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HR,	HU,
		IE,	IS,	IT,	LT,	LU,	LV,	MC,	MT,	NL,	NO,	PL,	PT,	RO,	SE,	SI,	SK,
		TR,	BF,	ΒJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,
		TG,	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,
		AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM							
PRIORITY	APP	LN.	INFO	. :						US 2	007-	9960	78P	1	P 2	0071	026
OTHER SO	HER SOURCE(S):						150:	4877	94								

The invention provides methods for treating Parkinson's disease

by administering to patients therapeutically effective amts. of AMPA receptor antagonists in combination with one or more other active ingredients useful for treating Parkinson's disease. The invention provides methods for treating movement disorders by administering to patients therapeutically effective amts. of AMPA receptor antagonists in optionally combination with one or more other active ingredients that are useful for treating movement disorders. The invention also provides pharmaceutical combinations, kits, and pharmaceutical compns. comprising therapeutically effective amts. of AMPA receptor antagonists, and optionally, one or more other active ingredients that are useful for treating Parkinson's disease and/or movement disorders.

T 133865-89-1, Safinamide

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(AMPA receptor antagonists for Parkinson's disease and movement disorders)

RN 133865-89-1 CAPLUS

CN Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1502800 CAPLUS

DOCUMENT NUMBER: 150:55709

TITLE: Preparation of substituted

2-[2-(phenyl)ethylamino]alkaneamide derivatives as

sodium and/or calcium channel modulators Melloni, Piero; Restivo, Alessandra; Izzo, Emanuela;

Francisconi, Simona; Colombo, Elena; Sabido-David, Cibele

PATENT ASSIGNEE(S): Newron Pharmaceuticals S.p.A., Italv

SOURCE: PCT Int. Appl., 88pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

INVENTOR(S):

PA:	ENT	NO.			KIN	D	DATE			APPL	ICAT	I NOI	NO.		D	ATE	
						-											
WO	2008	1517	02		A1		2008	1218	1	WO 2	008-	EP38	48		2	0080	514
	W:	AE,	AG,	AL,	AM,	AO,	AT,	AU,	AZ,	BA,	BB,	BG,	BH,	BR,	BW,	BY,	BZ,
		CA,	CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DO,	DZ,	EC,	EE,	EG,	ES,
		FΙ,	GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,
		KG,	KM,	KN,	KP,	KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	MD,

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ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TT, TT, TZ, DJ, UG, US, UZ, VC, VN, ZA, ZM, ZW, RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, GG, CI, CM, GA, GN, GQ, GW, MI, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
```

OTHER SOURCE(S): MARPAT 150:55709

R'3 R3 Y Z N R6

AB Title compds. I [X = O, S or SO2; Y = H, OH or O-alkyl; Z = O or S; R = alkyl; @-trifluoroalkyl; R1 and R2 independently = H, OH, alkoxy, alkylthio, halo, CF3 or CH2CF3; R3 and R'3 independently = H or alkyl; R4 and R5 independently = H, alkyl; or R4 = H and R5 = CH2-OH, CH2-O-alkyl, CH(CH3)-OH, (CH2)2-S-CH3, benzyl or 4-hydroxybenzyl; or R4 and R5, taken together with the adjacent carbon atom, form a cycloalkyl; R6 and R7 independently = H or alkyl; or NR6R7 = 5- to 6-membered monocyclic saturated heterocycle; with the proviso], and their pharmaceutically acceptable salts, are prepared and disclosed. Thus, e.g., II was prepared by in 5 steps starting from 2-(3-benzyloxyphenyl)ethylamine hydrochloride. Selected I were tested in TTXs-sodium channel influx assay, e.g., II exhibited inhibition of Na+ influx channels with IC50 value of 1.5 µM. I and pharmaceutically acceptable salts thereof, pharmaceutical compns. containing them as active ingredient and their use as sodium and/or calcium channel modulators useful in preventing, alleviating and curing a wide range of pathologies, including, but not limited to, neurol., cognitive, psychiatric, inflammatory, urogenital and gastrointestinal diseases, where the above mechanisms have been described as playing a pathol. role. 133865-89-1, Safinamide

ΙI

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(preparation of substituted phenylethylaminoalkaneamide derivs. as sodium and/or calcium channel modulators)

RN 133865-89-1 CAPLUS

CN

Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

REFERENCE COUNT:

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1338451 CAPLUS

DOCUMENT NUMBER: 149:541636

TITLE: Combination pharmaceutical compositions comprising minicapsules or minispheres of, for example,

nimodipine and tacrolimus

INVENTOR(S): Coulter, Ivan

PATENT ASSIGNEE(S): Sigmoid Pharma Ltd., Ire. SOURCE: PCT Int. Appl., 109pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

	ENT I				KIN	D	DATE				ICAT				-	ATE	
					A2		2008										
	W:	ΑE,	AG,	AL,	AM,	AO,	AT,	AU,	AZ,	BA,	BB,	BG,	BH,	BR,	BW,	BY,	BZ,
		CA,	CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DO,	DZ,	EC,	EE,	EG,	ES,
		FI,	GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JΡ,	KE,
		KG,	KM,	KN,	KΡ,	KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	MD,
		ME,	MG,	MK,	MN,	MW,	MX,	MY,	ΜZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,
		PL,	PT,	RO,	RS,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	ΤJ,	TM,
	TN, TR, T RW: AT, BE, B					UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW			
	RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HR,	HU,
		ΙE,	IS,	ΙT,	LT,	LU,	LV,	MC,	MT,	NL,	NO,	PL,	PT,	RO,	SE,	SI,	SK,
							CI,										
		TG,	BW,	GH,	GM,	KE,	LS,	MW,	ΜZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,
		AM,	ΑZ,	BY,			MD,										
EP :	2063	875			A2		2009	0603		EP 2	008-	7381	44		2	0800	501
	R:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HR,	HU,
		ΙE,	IS,	ΙT,	LI,	LT,	LU,	LV,	MC,	MT,	NL,	NO,	PL,	PT,	RO,	SE,	SI,
					ΒA,	MK,	RS										
PRIORITY	PRIORITY APPLN. INFO.:										007-					0070	
										WO 2	008-	IE53		1	W 2	0800	501

AB A modified release dosage product is provided, comprising a plurality of minicapsules or minispheres containing various active agents, for example, a calcium channel blocker, such as nimodipine, and/or a calcineurin inhibitor, such as tacrolimus. Uncoated minicapsules or minispheres encapsulating micronized nimodipine for immediate release and a controlled release polymer coated minicapsule or minisphere encapsulating micronized nimodipine for delayed, sustained, controlled or targeted release are described. Uncoated seamless minicapsules, the core of which comprise

tacrolimus lipid-based formulation for immediate release and a controlled release polymer coated seamless minicapsule, the core of which comprises tacrolimus lipid-based formulation for delayed, sustained, controlled release or targeted release are also described. The final dosage form may be a hard gelatin capsule. Thus, nimodipine multiparticulate seamless minicapsules were produced containing nimodipine 37.5%, gelatin 56.3% and sorbitol 6.3%, and some of the minicapsules were coated with Surelease. Tacrolimus minicapsules were also produced comprising a core containing acrolimus 3.25%, Labrafil 36.4%, olive oil 47.65%, and ethanol 12.7%, and a shell containing gelatin 90.0% and sorbitol 10.0%, and some of the minicapsules were first coated with Eudragit RS30D followed by Eudragit FS30D. The uncoated and coated nimodipine minicapsules and uncoated and coated tacrolimus minicapsules were blended into the final dosage form. 133865-89-1, Safinamide

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (controlled-release compns. comprising combination of nimodipine and tacrolimus encapsulated in minicapsules or minispheres) 13365-89-1 CAPLUS

CN Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RM

AR

L3 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1202499 CAPLUS

DOCUMENT NUMBER: 150:320435

TITLE: New frontiers in the pharmacological management or

Parkinson's

AUTHOR(S): Gottwald, Mildred D.; Aminoff, Michael J.
CORPORATE SOURCE: Jazz Pharmaceuticals, Inc., Palo Alto, CA, USA

SOURCE: Drugs of Today (2008), 44(7), 531-545

CODEN: MDACAP; ISSN: 1699-3993
PUBLISHER: Prous Science

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Journal; General Review

A review. Rasagiline, a selective COMT inhibitor, and rotigotine, a transdermal dopamine (D2) agonist, are two new agents that have been approved in the U.S. and Europe for the treatment of Parkinson's disease. Rasagiline is approved in the U.S. for both monotherapy and as an adjunct to levodopa. Its role in preventing disease progression has yet to be proven, but a large-scale study (ADAGIO) is under way. Rotigotine is approved for early-stage disease in Europe and the U.S. but is only approved in Europe for late-stage disease. It has recently been recalled due to the formation of insol. crystals that interfere with absorption and may reduce its efficacy. Measures are being taken by the manufacturer to solve this problem. Istradefylline, and adenosine receptor antagonist, showed early promise but efficacy has not been demonstrated consistently, possibly due to higher than expected placebo effect. This has resulted in a nonapprovable letter from the FDA. With

regard to perampanel, addnl. studies are needed to demonstrate safety and efficacy. Sanifamide and pardoprunox are agents that target multiple receptors that may modulate dyskinesia and other nonmotor symptoms in addition to motor symptoms, but phase III data are not yet available. Lusuride is an older dopamine agonist that has been reformulated as a transdermal patch and as a s.c. injection and may offer advantages in refractory patients with motor fluctuations. Sphermaine is a novel cell therapy designed to provide a localized source of levodopa directly to the brain. Gene therapies including AAV-GAD, AAV-AADC and AAV2-neurturin are in early stages of development in patients with advanced-stage disease but early safety data are promising.

133865-89-1, Safinamide

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(safinamide targeted multiple receptors and may modulate dyskinesia, motor and non-motor symptoms in patient with Parkinson's disease)

RN 133865-89-1 CAPLUS

CN Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

OS.CITING REF COUNT: THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD

(2 CITINGS)

REFERENCE COUNT: 67 THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:718592 CAPLUS

DOCUMENT NUMBER: 149:69382

TITLE: An expert opinion on safinamide in Parkinson

's disease Onofrj, Marco; Bonanni, Laura; Thomas, Astrid AUTHOR(S): CORPORATE SOURCE: Department of Oncology and Neuroscience, Ageing

Research Center, CeSI, University G D'Annunzio of Chieti-Pescara, University Foundation 'G D'Annunzio',

Chieti-Scalo, 66013, Italy

Expert Opinion on Investigational Drugs (2008), 17(7),

SOURCE:

CODEN: EOIDER; ISSN: 1354-3784

PUBLISHER: Informa Healthcare

DOCUMENT TYPE: Journal: General Review

LANGUAGE: English

A review. Background: Dopamine replacement therapies (levodopa, dopamine receptor agonists, anticholinergics, monoamine oxidase B inhibitors, and catechol-O-methyltransferase inhibitors) remain the cornerstones of therapeutic interventions for Parkinson's disease (PD). Despite the treatment options for PD symptoms, a cure remains elusive. An optimal treatment would be one that combined relief in both motor and nonmotor

symptoms with neuroprotective properties. Safinamide is an investigational drug for PD currently in development as add-on therapy to both dopamine agonists and levodopa. Safinamide is a unique mol. with a novel mode of action, targeting both dopaminergic and glutaminergic systems, and potentially provides motor symptom control. Preliminary results from exptl. models suggest potential neuroprotective effects. Studies on the potential effects on nonmotor symptoms are ongoing. Objective: To review the mechanism of action and pharmacokinetics, and to evaluate the available clin. safety and efficacy results of safinamide. Methods: A search of the electronic database MEDLINE (PubMed, no time limits) was performed on 14 Dec. 2007. The full text of all citations was obtained for review. Furthermore, two abstrs. on safinamide published as proceedings of a European conference were reviewed. Results/conclusion: Safinamide is a promising investigational drug for PD with a novel mode of action. Early reports confirm the potential efficacy of safinamide in PD. Further studies on potential effects on cognition and neuroprotection are needed.

133865-89-1, Safinamide

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(safinamide in treatment Parkinson's disease)

133865-89-1 CAPLUS RN

Propanamide, 2-[[[4-[(3-fluorophenyl)methoxylphenyl]methyl]amino]-, (2S)-CN (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

REFERENCE COUNT:

THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

63 ANSWER 8 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:29459 CAPLUS 148:345134

DOCUMENT NUMBER:

TITLE: Monoamine oxidase-B inhibition in the treatment of

Parkinson's disease

Fernandez, Hubert H.; Chen, Jack J. AUTHOR(S): CORPORATE SOURCE:

Movement Disorders Center, McKnight Brain Institute, University of Florida, Gainesville, FL, USA

Pharmacotherapy (2007), 27(12, Pt. 2), 1748-1858

CODEN: PHPYDO; ISSN: 0277-0008

PUBLISHER: Pharmacotherapy Publications

DOCUMENT TYPE: Journal: General Review

LANGUAGE: English

A review. Inhibitors of monoamine oxidase (MAO) with selectivity and specificity for MAO type B prolong the activity of both endogenously and exogenously derived dopamine, making them an option either as monotherapy in early Parkinson's disease or as adjunctive therapy in patients treated with levodopa who are experiencing motor complications. In addition to symptomatic benefits, exptl. data suggest that MAO-B

inhibitors may be neuroprotective through MAO-B inhibition and other mechanisms that have yet to be clearly defined. The two available MAO-B inhibitors approved for use in the United States, rasagiline and selegiline, each provide symptomatic relief as monotherapy and as adjunctive therapy, and have shown potential disease-modifying effects in exptl. models and clin. studies. Selegiline in a conventional tablet formulation is less bioavailable than rasagiline, resulting in limited potency. It also has amphetamine metabolites that may produce adverse effects and interfere with any putative disease-modifying effects. The oral disintegrating tablet formulation of selegiline allows pregastric absorption, minimizing first-pass metabolism, thereby increasing selegiline bioavailability and reducing the concentration of amphetamine metabolites. Rasagiline, more potent than selegiline, exhibits disease-modifying effects in exptl. models and lacks amphetamine metabolites. Both the symptomatic and potential disease-modifying effects of rasagiline are under investigation. A third agent with MAO-B inhibition properties, safinamide, is in phase III development. Although not yet approved, safinamide may offer the added advantage of combined MAO-B and dopamine reuptake inhibition.

133865-89-1, Safinamide

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (monoamine oxidase-B inhibition in treatment of Parkinson's disease)

133865-89-1 CAPLUS
Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

OS.CITING REF COUNT:

THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

REFERENCE COUNT:

92 THERE ARE 92 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN 2007:1469897 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 148:100890

TITLE:

Process for the production of 2-[4-(3- and 2-fluorobenzyloxy) benzylamino|propanamides (safinamide

and ralfinamide) of high purity by catalytic hydrogenation of Schiff base intermediates and their

use for treating CNS disorders INVENTOR(S): Barbanti, Elena; Caccia, Carla; Salvati, Patricia;

Velardi, Francesco; Rufilli, Tiziano; Bogogna, Luigi

PATENT ASSIGNEE(S): Newron Pharmaceuticals S.p.A., Italy PCT Int. Appl., 77pp.

SOURCE: CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

Patent English

	TENT I										LICAT					ATE	
	2007	1474	91		A1		2007	1227		wo :	2007-1	EP51	05		2	0070	608
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		GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	, ID,	IL,	IN,	IS,	JP,	KE,	KG,
		KM,	KN,	KP,	KR,	KZ,	LA,	LC,	LK,	LR,	, LS,	LT,	LU,	LY,	MA,	MD,	MG,
		MK,	MN,	MW,	MX,	MY,	MZ,	NA,	NG,	NI,	, NO,	NZ,	OM,	PG,	PH,	PL,	PT,
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											, ZM,						
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		IS,	ΙT,	LT,	LU,	LV,	MC,	MT,	NL,	PL,	, PT,	RO,	SE,	SI,	SK,	TR,	BF,
											, ML,						
									SD,	SL,	, SZ,	ΤZ,	UG,	ZM,	ZW,	AM,	ΑZ,
							TJ,										
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AU	2007	2633:	28		A2		2009	0219									
CA	2653	012			A1		2007	1227			2007-						
EP											2007-						
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							LV,	MC,	MΤ,	NL,	, PL,	PT,	RO,	SE,	SI,	SK,	TR,
		AL,															
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	2009										2008-						
CN	1014	7288	0		A		2009	0701			2007-						
ИО	2009	0002	31		A		2009	0116		NO 3	2009-	231			2	0090	114
KR	2009	0213	92		A		2009	0303		KR 2	2009- 2009-	7011	24		2	0090	119
					A		2009	0605									
RIORITY	Y APP	LN.	INFO	. :							2006-						
											2007-1				W 2	0070	608
THER SO	DURCE	(S):			CAS	REAC	T 14	8:10	0890	; M2	ARPAT	148	:100	390			

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- The invention is related to a process for preparation of therapeutically active 2-[4-(3- and 2-fluorobenzyloxy)benzylamino]propanamides I (safinamide (3-F) and ralfinamide (2-F)) and their pharmaceutically acceptable salts with high purity, in particular, with a content of dibenzyl derivative impurities II <0.03 weight %, preferably <0.01 weight %, via catalytic hydrogenation of the corresponding Schiff base intermediates III in the presence of a heterogeneous catalyst in a protic organic solvent. For example, α-aminoamides I and their pharmaceutically acceptable salts were prepared by fluorobenzylation of hydroxybenzaldehydes with fluorobenzyl derivs. IV [Y = Cl, Br, I, OSO2Me, OSO2C6H4-p-Me] using phase transfer catalysts, iminoalkylation of the benzaldehydes with L-alaninamide in a protic organic solvent, catalytic hydrogenation of Schiff base intermediates III in the presence of a heterogeneous catalyst in a protic organic solvent and acidulation of I with a pharmaceutically acceptable acid. Thus, fluorobenzylation of 4-hydroxybenzaldehyde with 2-fluorobenzyl chloride in toluene in the presence of potassium carbonate and tetradecyltrimethylammonium bromide gave
 - 4-[(2-fluorobenzyl)oxy]benzaldehyde (V) which was recrystd. from
 - diisopropyl ether gave V and a content of
 - 3-(2-fluorobenzyl)-4-[(2-fluorobenzyl)oxy]benzaldehyde of 0.005 weight %. Iminoalkylation of fluorobenzyloxybenzaldehyde V with L-alaninamide

hydrochloride in MeOH in the presence of TEA gave Schiff base III (2-F) which was hydrogenated in the presence of wet (50 \pm H2O) Pt/C at 5 bars and 35 \pm gave ralfinamide in 93 \pm yield with a a content of

(S)-2-[[3-(2-fluorobenzy1)-4-[(2-fluorobenzy1)oxy]benzy1]amino]propanamide of 0.02 weight %. Ralfinamide methanesulfonate (preparation given) containing 0.05 %

dibenzylated impurity II (2-F) was tested in a cytotoxicity assay in human neuroblastoma cell line SH-SY-5Y, in a HERG current inhibition assay in transfected CHO cell lines and in a maximal electroshock test in mice and compared to II and to methanesulfonate containing II 0.3 %. As the amount of

present in ralfinamide increases, so do the undesirable features, such as cellular toxicity, strong inhibition of Cytochrome P 450, HERG channel blockage, and no protective activity in the in vivo model of epilepsy. 202825-46-5P

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); PUR (Purification or recovery); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of safinamide and ralfinamide and their salts from hydroxybenzaldehydes by fluorobenzylation, iminoalkylation and catalytic hydrogenation)

RN 202825-46-5 CAPLUS

CN Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-, methanesulfonate (1:1) (CA INDEX NAME)

CM

ΙI

CRN 133865-89-1 CMF C17 H19 F N2 O2

Absolute stereochemistry. Rotation (+).

CM 2

CRN 75-75-2 CMF C H4 O3 S

IT 133865-89-1P, Safinamide

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); PUR (Purification or recovery); RCT (Reactant); THU (Therapeutic use); BIOL

(Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of safinamide and ralfinamide from hydroxybenzaldehydes by fluorobenzylation, iminoalkylation and catalytic hydrogenation)

RN 133865-89-1 CAPLUS

CN Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1454651 CAPLUS

DOCUMENT NUMBER: 148:45877

TITLE: Alpha-aminoamide derivatives useful in the treatment

of cognitive disorders

INVENTOR(S): Salvati, Patricia; Rossetti, Stefano; Benatti, Luca

PATENT ASSIGNEE(S): Newron Pharmaceuticals S.p.A., Italy SOURCE: PCT Int. Appl., 38pp.

SOURCE: PCT Int. Appl., 38pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	TENT				KIN	D	DATE			APPL									
WO	2007	1441	53													0070			
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		RO,	RS,	RU,	SC,	SD,	SE,	SG,	SK,	NI, SL, ZA,	SM,	sv,							
	RW:	ВJ,	IT, CF,	LT, CG,	LU, CI,	LV, CM,	MC, GA,	MT, GN,	NL, GQ,	EE, PL, GW, SL,	PT, ML,	RO, MR,	SE, NE,	SI, SN,	SK, TD,	TR, TG,	BF, BW,		
EP	1870	BY,	KG,	KΖ,	MD,	RU,	ΤJ,	TM,	AP,	EA,	EP,	OA		·	·				
	R:		IT,		LT,					EE, PL,									
AU	2007	2602	39		A1		2007	1221		AU 2	007-	2602	39		2	0070	613		

CA	2655	243			A1		2007	1221		CA 2	2007-	2655	243		2	0070	613
EP	2029	130			A2		2009	0304	1	EP 2	2007-	7259	89		2	0070	613
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		AL,	BA,	HR,	MK,	RS											
MX	2008	0160	17		A		2009	0116]	MX 2	-800	1601	7		2	0081	212
KR	2009	01883	17		A		2009	0223	1	KR 2	-800	7303	89		2	0081	212
IN	2008	KN050	055		A		2009	0327		IN 2	-8008	KN50.	55		2	0081	212
CN	1014	66366	5		A		2009	0624		CN 2	2007-	8002	1897		2	0081	212
PRIORITY	APP:	LN.	INFO	. :					1	EP 2	2006-	1235	2		A 2	0060	615
									1	WO 2	2007-	EP51	97		W 2	0070	613

OTHER SOURCE(S):

MARPAT 148:45877 The present invention is in the field of pharmacotherapy of cognitive deficits in learning and memory by administering an α -aminoamide, particularly safinamide. Examples of disturbances in cognition that can be treated with compds. of the invention are the ones associated with disorders such as autism, dyslexia, attention deficit hyperactivity disorder, schizophrenia, obsessive compulsive disorders, psychosis, bipolar disorders, depression, Tourette's syndrome, Mild Cognitive Impairment (MCI) and disorders of learning in children, adolescents and adults, Age Associated Memory Impairment, Age Associated Cognitive Decline, Alzheimer's Disease, Parkinson's Disease, Down's Syndrome, traumatic brain injury Huntington's Disease, Progressive Supranuclear Palsy (PSP), HIV, stroke, vascular diseases, Pick's or Creutzfeldt- Jakob diseases, multiple sclerosis (MS), other white matter disorders and drug-induced cognitive worsening.

133865-89-1, Safinamide 202825-46-5

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(a-aminoamide derivs. useful in treatment of cognitive disorders) RN 133865-89-1 CAPLUS

CN Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 202825-46-5 CAPLUS

Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-, CN methanesulfonate (1:1) (CA INDEX NAME)

CM 1

CRN 133865-89-1

CMF C17 H19 F N2 O2

Absolute stereochemistry. Rotation (+).

CM 2

CRN 75-75-2 CMF C H4 03 S

OS.CITING REF COUNT: 1

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L3 ANSWER 11 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1088890 CAPLUS

DOCUMENT NUMBER: 147:392440

TITLE: Transdermal delivery of systemically active central

nervous system drugs

INVENTOR(S): Carrara, Dario Norberto R.; Grenier, Arnaud; Alberti, Igno; Henry, Laetitia; Decaudin, Celine

PATENT ASSIGNEE(S): Switz.

SOURCE: U.S. Pat. Appl. Publ., 24pp., Cont.-in-part of U.S.

Ser. No. 634,005. CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT	NO.			KIN	D	DATE			APPL	ICAT	ION :	NO.		D.	ATE	
					-									_		
US 200	70225	379		A1		2007	0927		US 2	007-	7559	23		2	0070	531
WO 200	20117	68		A1		2002	0214		WO 2	001-	EP90	07		2	0010	803
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RW	: GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,
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	BJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG	
US 200	30199	426		A1		2003	1023		US 2	003-	3435	70		2	0030	519
US 721	4381			B2		2007	0508									
AU 200	42834		A1		2005	0506		AU 2	004-	2834	31		2	0041	006	

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20041006
     CA 2538856
                         A1 20050506 CA 2004-2538856
A1 20050506 WO 2004-EP11175
     WO 2005039531
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             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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             EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
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             SN, TD, TG
     EP 1670433
                                20060621
                                            EP 2004-790156
                          A1
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                                20061031 BR 2004-14551
     BR 2004014551
                          Α
                                            JP 2006-530107
     JP 2007508261
                           T
                                20070405
                                                                     20041006
                                20081031 NZ 2004-546106
     NZ 546106
                         A
                                                                      20041006
    US 20060153905 A1 20060713
US 7335379 B2 20080226
                                           US 2006-371042
                                                                      20060307
                       A 20070627
A 20060608
A1 20070503
B2 20080729
A1 20090312
    ZA 2006002046
MX 2006003316
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                                                                     20060324
     US 20070098775
                                             US 2006-634005
                                                                     20061204
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US /404965 B2 20080729
US 20090069364 A1 20090312
PRIORITY APPLN. INFO.:
                                             US 2008-268301
                                                                      20081110
                                                                W 20010803
A1 20030519
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                                             IIS 2003-343570
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                                                                 P 20031010
                                                                 A1 20041006
                                             WO 2004-EP11175
                                             US 2006-371042
                                                                 A2 20060307
                                                                 A2 20061204
                                             US 2006-634005
                                             WO 2000-EP7533
                                                                 A 20000803
                                             US 2007-755923
                                                                 A2 20070531
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AB The invention relates to a transdermal or transmucosal non-occlusive, semi-solid pharmaceutical formulation that includes at least one systemically active agent that acts on the central nervous system (CNS) of a mammal; and a permeation enhancing solvent system present in an amount sufficient to solubilize the at least one active ingredient. The permeation enhancing solvent system includes a pharmaceutically acceptable monoalkyl ether of diethylene glycol; a pharmaceutically acceptable glycol; preferably also a fatty alc. and or a fatty acid; and a mixture of a C2 to C4 alc. and water so that the permeation enhancing solvent system (a) inhibits crystallization of the at least one active ingredient on a skin or mucosal surface of a mammal, (b) reduces or prevents transfer of the formulation to clothing or to another being, (c) modulates biodistribution of the at least one active agent within different layers of skin, (d) facilitates absorption of the at least one active agent by a skin or a mucosal surface of a mammal, or (e) provides a combination of one or more of (a) through (d). A transdermal pharmaceutical contained pramipexole dihydrochloride 2.00, diethylene glycol monoethyl ether 5.00, propylene glycol 15.0, hydroxypropylcellulose 1.50, absolute ethanol 4.0, sodium hydroxide g.s. pH = 8.2, and water g.s. 100.00%.

133865-89-1, Safinamide

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (transdermal delivery of systemically active central nervous system drugs)

RN 133865-89-1 CAPLUS

Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L3 ANSWER 12 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:997166 CAPLUS

DOCUMENT NUMBER: 147:502595

TITLE: Solid-Phase Synthesis and Insights into

Structure-Activity Relationships of Safinamide

Analogues as Potent and Selective Inhibitors of Type B

Monoamine Oxidase

AUTHOR(S): Leonetti, Francesco; Capaldi, Carmelida; Pisani, Leonardo; Nicolotti, Orazio; Muncipinto, Giovanni;

Stefanachi, Angela; Cellamare, Saverio; Caccia, Carla;

Carotti, Angelo

CORPORATE SOURCE: Dipartimento Farmaco-Chimico, University of Bari,

Bari, I-70125, Italy

SOURCE: Journal of Medicinal Chemistry (2007), 50(20),

4909-4916

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 147:502595

AB Safinamide, an anti-Parkinson drug in phase III clin. trials,

and its alkanamidic analogs were prepared via expeditious solid-phase synthesis and evaluated for their monoamine oxidase B (MAO-B) and monoamine oxidase A (MAO-A) inhibitory activity and selectivity. (S)-3-Chlorobenzyloxyalaninamide (8) and (S)-3-chlorobenzyloxyserinamide (13) derivs, proved to be more potent MAO-B inhibitors than safinamide (IC50 = 33 and 43 nM, resp., vs. 98 nM) but with a lower MAO-B selectivity (SI = 3455 and 1967, resp., vs. 5918). The highest MAO-B inhibitory potency (IC50 = 17 nM) and a good selectivity (SI = 2941) were displayed by (R)-2-[6-(3-fluorobenzyloxy)-3,4-dihydro-1H-isoquinolin-2yl]propionamide (R-21), a tetrahydroisoquinoline analog of safinamide. Structure-affinity relationships and docking simulations pointed out strong neg. steric effects of a-amino acid amide side chains and para substituents of the benzyloxy groups and favorable hydrophobic interactions of meta substituents. The significantly diverse MAO-B affinities of a number of (R)- and (S)- α -amino acid amide enantiomers, including the two rigid analogs (21) of safinamide, indicated likely enantioselective interactions at the enzymic binding sites.

133865-89-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(solid-phase preparation and structure-activity relationships of safinamide and its analogs as inhibitors of type B monoamine oxidase)

RN 133865-89-1 CAPLUS

CN Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-(CA INDEX NAME) Absolute stereochemistry. Rotation (+).

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS

L3 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2007:926416 CAPLUS

DOCUMENT NUMBER: 147:356131

TITLE: Drug evaluation: safinamide for the treatment of Parkinson's disease, epilepsy and restless

legs syndrome AUTHOR(S): Chazot, Paul L.

CORPORATE SOURCE: Centre for Integrative Neuroscience (CINS) School of

Biological and Biomedical Sciences, Durham University, Durham, DH1 3LE, UK

SOURCE: Current Opinion in Investigational Drugs (Thomson

Scientific) (2007), 8(7), 570-579

CODEN: COIDAZ; ISSN: 1472-4472 PUBLISHER: Thomson Scientific

DOCUMENT TYPE: Journal; General Review LANGUAGE: English

AB A review. Merck Serono SA (formerly Serono), under license from Newron Pharmaceuticals SpA (following its acquisition of the rights from Pharmacia and Upjohn AB [now Pfizer Inc]), is developing the oral α -aminoamide derivative of milacemide, safinamide, a monoamine oxidase-B and glutamate release inhibitor, for the potential treatment of Parkinson's disease, epilepsy and restless legs syndrome. In

March 2007, plans to develop the agent for the potential treatment of other cognitive disorders, such as Alzheimer's disease, were being finalized and testing was expected to begin before the end of that year. IT 13365-99-1, Safinamide

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (Merck Serono SA under license from Newron Pharmaceuticals SpA is

developing safinamide for potential treatment of Parkinson's disease, epilepsy and restless legs syndrome in human)

RN 133865-89-1 CAPLUS

N Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 14 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:252730 CAPLUS

DOCUMENT NUMBER: 146:371665 TITLE: Safinamide

AUTHOR(S): Fariello, Ruggero G.

CORPORATE SOURCE: BioNeuroFar s.a.s, Luino, Italy

SOURCE: Neurotherapeutics (2007), 4(1), 110-116

CODEN: NEURNV: ISSN: 1933-7213

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

A review. Safinamide (SAF) ((S)-(+)-2-(4-(3-fluorobenzyloxy) benzylamino)propanamide) was initially synthesized by Farmitalia Carlo Erba (Italy). Following initial anticonvulsant screening, safinamide was selected for its potency, broad spectrum of action, and good safety margin. Pharmacodynamic properties probably relevant to its antiepileptic activity are use- and frequency-dependent block of voltage sensitive Na+ channels, block of Ca++ channels, and glutamate release inhibition. Possibly contributing mechanism are also selective and reversible monoamide oxidase B inhibition and dopamine and noradrenaline uptake inhibition. The high selectivity for the sigma-1 receptor site does not entail psychotomimetic or behavioral changes. In several exptl. in vitro and in vivo conditions, SAF exerts neurorescuing and neuroprotectant effects. Safinamide is water soluble and suitable for 1 times a day oral administration in humans. In a pilot phase II study in 38 refractory epilepsy patients affected by multiple types of seizures, 41% of subjects obtained ≥50% seizure reduction during a 12-wk escalating dose up to 300 mg 1 times day compared with perspective baseline. Safinamide is being developed in phase III for treatment of Parkinson's disease, whereas the development in epilepsy relates to the industrial strategy of the company.

133865-89-1, Safinamide

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmacokinetics and pharmacodynamic anal. showed safinamide exhibited anticonvulsant activity with neurorescuing and neuroprotectant effects in refractory epilepsy patient)

RN

133865-89-1 CAPLUS
Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (25)-CN (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

OS.CITING REF COUNT: THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 15 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:1039299 CAPLUS

DOCUMENT NUMBER: 147:22182

TITLE: New pharmacologic horizons in the treatment of

Parkinson disease

AUTHOR(S): Bonuccelli, Ubaldo: Del Dotto, Paolo CORPORATE SOURCE: Department of Neurocience, University of Pisa and

Neurology Unit, Pisa, Italy SOURCE:

Neurology (2006), 67(7, Suppl. 2), S30-S38 CODEN: NEURAI; ISSN: 0028-3878

PUBLISHER: Lippincott Williams & Wilkins

DOCUMENT TYPE: Journal: General Review

LANGUAGE:

English A review. Many of the motoric features that define Parkinson's disease (PD) result primarily from the loss of dopaminergic neurons of the substantia nigra. 1-dopa remains at present the most powerful symptomatic drug for the treatment of this condition. However, motor complications of chronic 1-dopa treatment have emerged as a major limitation of this therapy. Slowing or delaying the progression of the disease with neuroprotective therapies may delay the need for 1-dopa. In the past few years, novel insight into the pathogenetic mechanisms of neurodegeneration in PD has been provided. Mitochondrial function deficiency, increased oxidative stress, apoptosis, excitotoxicity, and inflammation are part of the processes that ultimately result in neurodegeneration. Drugs that are now under clin. scrutiny as neuroprotectant include mols. that combine one or more of the following properties: (1) monoamine oxidase inhibition (rasagiline, safinamide); (2) mitochondrial enhancement (coenzyme Q10, creatine); (3) antiapoptotic activity; (4) anti-inflammatory activity; (5) protein aggregation inhibition; (6) neurotrophic activity. In advanced Parkinson's disease, the combination of disease progression and 1-dopa therapy leads to the development of motor response complications, particularly wearing off, on off, dyskinesias and dystonias. The nonphysiol. pulsatile stimulation of striatal dopamine receptors, produced by the currently available dopaminergic drugs, may trigger a dysregulation of many neurotransmitter systems within the basal ganglia, mainly localized on medium spiny striatal neurons. These include alterations of glutamatergic, serotonergic, adrenergic and adenosine A2A receptors. Novel strategies for pharmacol. intervention with nondopaminergic treatments hold the promise of providing effective control or reversal of motor response complications. Of particular interest are NMDA and AMPA antagonists or drugs acting on 5-HT subtype 2A, alpha2-adrenergic, and adenosine A2 receptors. Future strategies may also target pre- and postsynaptic components that regulate firing pattern of basal ganglia neurons, such as synaptic vesicle proteins, nonsynaptic gap junction

communication mechanisms, or signal transduction systems that modulate the phosphorylation state of glutamatergic receptors.

IT 133865-89-1, Safinamide

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(safinamide inhibited monoamine oxidase in patient with

Parkinson's disease) 133865-89-1 CAPLUS

RN 133865-89-1 CAPLUS

CN Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS

RECORD (11 CITINGS)
REFERENCE COUNT: 66 THERE ARE 66 CITED RE

REFERENCE COUNT: 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:1039298 CAPLUS

DOCUMENT NUMBER: 147:23401

TITLE: Symptom relief in Parkinson disease by

safinamide: Biochemical and clinical evidence of efficacy beyond MAO-B inhibition

AUTHOR(S): Stocchi, F.; Vacca, L.; Grassini, P.; De Pandis, M.

F.; Battaglia, G.; Cattaneo, C.; Fariello, R. G.
CORPORATE SOURCE: IRCCS San Raffaele Pisana, Rome, Italy

SOURCE: Neurology (2006), 67(7, Suppl. 2), S24-S29 CODEN: NEURAL: ISSN: 0028-3878

PUBLISHER: Lippincott Williams & Wilkins

DOCUMENT TYPE: Journal LANGUAGE: English

AB In an open pilot study, doses of safinamide (100, 150, and 200 mg once a day, higher than previously tested) were administered to 13 parkinsonian patients along with a stable dose of dopamine (DA) agonist, causing a significant progressive improvement in motor performance as evaluated by the Unified Parkinson Disease Rating Scale (UPDRS) part III over an 8-wk period (4.2 points; P < 0.001). In association with levodopa, the same doses of safinamide in another group of patients (N = 11) induced a significant decrease in motor fluctuations (UPDRS part IV, 2.1 points; P < 0.001), accompanied by a dose-proportional increase of the levodopa AUC, up to 77% from baseline. Because MAO-B was fully inhibited (95%) at all doses tested, we suggest that these biochem. and symptomatic dose-dependent effects must be related to addnl. mechanisms of action, such as inhibition of glutamate release, increased dopamine release, or inhibition of dopamine re-uptake. These hypotheses are under investigation and will pursue confirmation in controlled clin. trials.

133865-89-1, Safinamide
RL: ADV (Adverse effect, including toxicity); DMA (Drug mechanism of action); PAC (Pharmacological activity); PRT (Pharmacokinetics); THU

(Therapeutic use); BIOL (Biological study); USES (Uses) (combination therapy of safinamide and levodopa lowered motor fluctuations showing symptom relief while inhibited glutamate release or dopamine reuptake and raised dopamine release due to MAO-B inhibition in patient with Parkinson's disease)

133865-89-1 CAPLUS RN

Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-CN (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

OS.CITING REF COUNT: THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT: THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS 19 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 17 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:1039297 CAPLUS DOCUMENT NUMBER: 147:22181

TITLE: Safinamide: From molecular targets to a new anti-

Parkinson drug

Caccia, C.; Maj, R.; Calabresi, M.; Maestroni, S.; AUTHOR(S): Faravelli, L.; Curatolo, L.; Salvati, P.; Fariello, R.

CORPORATE SOURCE: Newron Pharmaceuticals Spa, Bresso, Italy

SOURCE: Neurology (2006), 67(7, Suppl. 2), S18-S23

CODEN: NEURAI; ISSN: 0028-3878 PUBLISHER: Lippincott Williams & Wilkins

DOCUMENT TYPE: Journal; General Review

LANGUAGE:

English A review. Ideal treatment in Parkinson's disease (PD) aims at relieving symptoms and slowing disease progression. Of all remedies, levodopa remains the most effective for symptomatic relief, but the medical need for neuroprotectant drugs is still unfulfilled. Safinamide, currently in phase III clin. trials for the treatment of PD, is a unique mol. with multiple mechanisms of action and a very high therapeutic index. It combines potent, selective, and reversible inhibition of MAO-B with blockade of voltage-dependent Na and Ca channels and inhibition of glutamate release. Safinamide has neuroprotective and neuro rescuing effects in MPTP-treated mice, in the rat kainic acid, and in the gerbil ischemia model. Safinamide potentiates levodopa-mediated increase of DA levels in DA-depleted mice and reverses the waning motor response after prolonged levodopa treatment in 6-OHDA-lesioned rats. Safinamide has excellent bioavailability, linear kinetics, and is suitable for once-a-day administration. Therefore, safinamide may be used in PD to reduce 1-dopa dosage and also represents a valuable therapeutic drug to test disease-modifying potential.

133865-89-1, Safinamide

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(safinamide had neuroprotective and neurorescuing effects in mouse, rat and gerbil ischemia model, suggests that safinamide may be used in Parkinson's disease patient to reduce levodopa dosage)

RN 133865-89-1 CAPLUS

CN Propanamide, 2-[[[4-[(3-fluorophenyl)methoxylphenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

OS.CITING REF COUNT: THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD

(3 CITINGS) REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS

RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

APPLICATION NO.

DATE

ANSWER 18 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:215887 CAPLUS

DOCUMENT NUMBER: 142:285193

TITLE: medicinal compositions containing adenosine A2A

receptor antagonists and dopamine agonists INVENTOR(S): Kase, Hiroshi; Kobayashi, Minoru; Shiozaki, Shizuo;

Mori, Akihisa; Senoo, Naoki

PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp. CODEN: JKXXAF

KIND

DOCUMENT TYPE: Patent.

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.

DATE JP 2005060370 20050310 JP 2004-215147 20040723 Δ PRIORITY APPLN. INFO.: JP 2003-201548 A 20030725

The invention provides a pharmaceutical composition characterized by AB containing an

adenosine A2A receptor antagonist (E)-8-(3,4-dimethoxystyryl)-1,3-diethyl-7-methyl-3,7-dihydro-1H-purin-2,6-dione (I) and dopamine agonist, e.g. pramipexole, pergolide mesylate, ropinirole hydrochloride, cabergoline, selegiline hydrochloride, safinamide mesylate, entacapone, and tolcapone, for administering together or separatory for treatment of Parkinson's disease and restless legs syndrome, etc. The effect of combination of I and pramipexole on haloperidol-induced catalepsy in mice was examined

202825-46-5, Safinamide mesylate

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(medicinal compns. containing adenosine A2A receptor antagonists and dopamine agonists)

202825-46-5 CAPLUS RN

CN Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

CRN 133865-89-1 CMF C17 H19 F N2 O2

Absolute stereochemistry. Rotation (+).

CM

CRN 75-75-2 CMF C H4 O3 S

(1 CITINGS)

L3 ANSWER 19 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2004:872683 CAPLUS

1

DOCUMENT NUMBER:

OS.CITING REF COUNT:

141:370536

TITLE: Combination chemotherapy for treatment of

parkinson's disease by using safinamides and

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

MAO-B inhibitors together with other antiparkinsonian agents

INVENTOR(S): Ruggero, Fariello; Cattaneo, Carlo; Salvati, Patricia; Benatti, Luca

PATENT ASSIGNEE(S): Newron Pharmaceuticals, Inc., Italy SOURCE: PCT Int. Appl., 43 pp.

CODEN: PIXXD2

Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

DOCUMENT TYPE:

PAT	ENT :	NO.			KIN	D	DATE		i	APPL	ICAT	ION :	NO.		D	ATE	
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WO	2004	0893	353 A3 20041216														
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                                           EP 2009-154864
                         A1
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PRIORITY APPLN. INFO.:
                                            US 2003-462205P
                                                                P 20030411
                                            EP 2004-726590
                                                                A3 20040408
                                                                W 20040408
                                            WO 2004-IB1408
ΔR
    New uses of safinamide, safinamide derivs. and MAO-B inhibitors in novel
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types of treatment for Parkinson's Disease are described. More specifically, the invention relates to methods for treating Parkinson's Disease through the administration of safinamide, a safinamide derivative, or a MAO-B inhibitor, in combination with other Parkinson's Disease agents or treatments, such as levodopa/PDI or dopamine agonists. For example, safinamide as an anticonvulsant was proved through clin. trials to be potent and safe to treat idiopathic early Parkinson's disease.

T 133865-89-1, Safinamide

RI: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (combination chemotherapy for treatment of parkinson's

disease by using safinamides and MAO-B inhibitors together with dopamine agonists)

RN 133865-89-1 CAPLUS

Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

- 133865-89-1D, Safinamide, derivs.
 - RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (combination chemotherapy for treatment of parkinson's disease by using safinamides and MAO-B inhibitors together with dopamine agonists)
- 133865-89-1 CAPLUS
- Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

OS.CITING REF COUNT: THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 20 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:630035 CAPLUS

DOCUMENT NUMBER: 142:169731

TITLE: Improvement of motor function in early

Parkinson disease by safinamide AUTHOR(S):

Stocchi, F.; Arnold, G.; Onofrj, M.; Kwiecinski, H.;

Szczudlik, A.; Thomas, A.; Bonuccelli, U.; Van Dijk,

A.; Cattaneo, C.; Sala, P.; Fariello, R. G.

CORPORATE SOURCE: Safinamide Parkinson's Study Group, Department of Neuroscience and IRCCS Neuromed Pozzilli, University

of Pisa, Milan, Italy

Neurology (2004), 63(4), 746-748 SOURCE:

CODEN: NEURAL: ISSN: 0028-3878 PUBLISHER: Lippincott Williams & Wilkins

DOCUMENT TYPE: Journal LANGUAGE: English

A median safinamide (SAF) dose of 70 mg/day (range 40 to 90 mg/day) AB increased the percentage of parkinsonian patients improving their motor scores by ≥30% from baseline (responders) after 3 mo from 21.4% (placebo) to 37.5% (p < 0.05, calculated by logistic regression anal.). In a subgroup of 101 patients under stable treatment with a single dopamine agonist, addition of SAF magnified the response (47.1% responders, mean 4.7-point motor score decrease; $p \ge 0.05$). These results suggest that doses of SAF exerting ion channel block and glutamate release

133865-89-1, Safinamide

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (low dose safinamide was well tolerated and increased improvement of motor activity, combination with dopamine agonist magnified response of Parkinson disease patient)

inhibition add to its symptomatic effect and warrant exploration of higher

RM 133865-89-1 CAPLUS CN Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

OS.CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS

RECORD (17 CITINGS)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:304312 CAPLUS

DOCUMENT NUMBER: 141:388094

TITLE: Pharmacokinetics and pharmacodynamics of safinamide, a neuroprotectant with antiparkinsonian and

anticonvulsant activity

AUTHOR(S): Marzo, Antonio; Dal Bo, Lorenzo; Monti, Nunzia Ceppi; Crivelli, Fabrizio; Ismaili, Shevqet; Caccia, Carla;

Cattaneo, Carlo; Fariello, Ruggero G.

CORPORATE SOURCE: IPAS SA, Ligornetto, 6853, Switz.
SOURCE: Pharmacological Research (2004), 50(1), 77-85

JRCE: Pharmacological Research (2004), 5 CODEN: PHMREP; ISSN: 1043-6618

PUBLISHER: Elsevier DOCUMENT TYPE: Journal

LANGUAGE: English Objective: This paper describes the pharmacokinetics and the pharmacodynamics, in terms of monoamino oxidase type B (MAO-B) inhibition, in male healthy volunteers of orally administered safinamide, a new neuroprotectant that in exptl. models has demonstrated strong anticonvulsant and antiparkinson activities. Methods: Four clin. trials covering the dose range of 25-10,000 µg/kg were carried out to describe pharmacokinetics, pharmacodynamics and tolerability of safinamide, administered in single or repeated dose regimen to steady state, including a food interaction trial. All the above trials were carried out after the Ethics Committee's approval and signature of the consent form by the volunteers. In single dose trials blood sampling covered a 24 h-period in pharmacodynamic trials, 48 h-period in pharmacokinetic trials. In the case of repeated dose regimen to steady state a pre-dose sample was drawn on the first six study days, whereas the curve was explored on the 7th study day, prolonging blood sampling over a 48 h-period after the last dosing. Safinamide level was determined in plasma by a very sensitive and specific LC-MS-MS method, with a low limit of quantification of 0.5 ng/mL of plasma. Pharmacokinetic anal. was carried out with non-compartmental method and, in one case, also with the two-compartmental method. Monoamine oxidase activity of both types A and B (MAO-A and MAO-B) was determined in plasma at different times (MAO-B) and correlated to safinamide levels, or in urine (MAO-A). Results: Pharmacokinetics of safinamide proved to be linearly and proportionally related to the administered doses. The absorption of safinamide was rapid with peak plasma concns.

ranging from 2 to 4 h. Food prolonged the rate and did not affect the

extent of absorption of safinamide. In repeat dose regimen once daily, the steady state was reached on the 5th study day with a marginal accumulation factor of 1.5-1.7. The drug was cleared with a t1/2 of about 22 h. Safinamide reversibly inhibited MAO-B enzyme. Full inhibition was observed with single doses≥600 µg/kg, and a relevant, dose dependent, progressive inhibition was encountered with doses starting from 25 µg/kg. Even at the highest single dose of 10 mg/kg no evidence of MAO-A inhibition was observed Conclusion: Enteral absorption of the drug is linear and proportional to the doses administered. The drug is cleared from the body with a t1/2 of .simeg.22 h, without producing any clin. relevant accumulation at steady state. The MAO-B inhibitory activity, without affecting MAO-A, is useful to prevent a dopamine bioinactivation in patients suffering from Parkinson's disease. Safinamide tolerability in the four clin. trials proved to be good.

133865-89-1, Safinamide

RL: PKT (Pharmacokinetics); BIOL (Biological study)

(pharmacokinetics of safinamide is linear, proportional to doses administered, absorption was rapid and food prolonged rate, did not affect absorption while reversibly inhibited MAO-B enzyme and was well tolerated in human)

133865-89-1 CAPLUS RN CN

Propanamide, 2-[[[4-[(3-fluorophenyl)methoxylphenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS

RECORD (14 CITINGS)

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 22 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2001:835216 CAPLUS

DOCUMENT NUMBER: 137:56719

TITLE: Safinamide mesilate Prop INNM NW-1015 PNU-151774E

FCE-26743

AUTHOR(S): Sorbera, L. A.; Leeson, P. A.; Castaner, J. CORPORATE SOURCE: Prous Science, Barcelona, 08080, Spain

Drugs of the Future (2001), 26(8), 745-749

CODEN: DRFUD4; ISSN: 0377-8282

PUBLISHER: Prous Science

DOCUMENT TYPE:

SOURCE:

Journal: General Review

LANGUAGE: English

A review. In an attempt to discover new, potent and safe anticonvulsant agents, a lead compound safinamide mesilate (NW-1015; PNU-151774E) emerged. It has no affinity for GABA receptors or excitatory amino acid receptors but exhibits high affinity for sodium channels and sigma-1 binding sites. Safinamide has also been shown to be a calcium antagonist and monoamine oxidase (MAO)-B and glutamate release inhibitor. Due to its broad spectrum of action demonstrated in vitro and its in vivo anticonvulsant

activity, safinamide was chosen for further development as a treatment for epilepsy and as a potential therapy for motor dysfunction associated with Parkinson's disease.

IT 202825-46-5P, Safinamide mesylate

RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(safinamide mesilate for treatment of epilepsy)

RN 202825-46-5 CAPLUS

CN Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

CRN 133865-89-1 CMF C17 H19 F N2 O2

Absolute stereochemistry. Rotation (+).

CM 2

CRN 75-75-2 CMF C H4 03 S

REFERENCE COUNT:

31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 23 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2001:536149 CAPLUS

DOCUMENT NUMBER: 135:312970

TITLE: Safinamide (Newron Pharmaceuticals)

AUTHOR(S): Chazot, Paul L.

CORPORATE SOURCE: School of Sciences, University of Sunderland, Tyne and Wear, SR2 3SD, UK

SOURCE: Current Opinion in Investigational Drugs (PharmaPress

Ltd.) (2001), 2(6), 809-813 CODEN: COIDAZ

PUBLISHER: PharmaPress Ltd.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review with refs. Safinamide (formerly PNU-151774E), a sodium and

calcium channel modulator that also inhibits monoamine oxidase B (MAOB), is under development by Newron Pharmaceuticals for the potential treatment of epilepsy, Parkinson's disease (PD), pain and stroke. Phase I trials for epilepsy and PD have been completed, and dose-finding studies for both indications had commenced in Mar. 2001. The compound was previously developed by Pharmacia & Upjohn (P&U) for the potential treatment of epilepsy, an indication for which it initially reached phase I trials. Newron acquired the rights to safinamide from P&U at the end of 1998. Results from two phase I trials of the compound (single ascending dose and steady state at three doses), completed in Mar. 2000, demonstrated that the drug is well tolerated with good bioavailability and linear pharmacokinetics.

133865-89-1, Safinamide

RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(safinamide for potential treatment of epilepsy, Parkinson's

disease (PD), pain and stroke in humans) 133865-89-1 CAPLUS

RN

Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS

RECORD (13 CITINGS)

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 24 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:824917 CAPLUS

DOCUMENT NUMBER: 134:348174

TITLE: Restoration and putative protection in Parkinsonism AUTHOR(S): Archer, Trevor; Fredriksson, Anders

CORPORATE SOURCE: Department of Psychology, University of Goteborg,

Goteborg, S-405 30, Swed. Neurotoxicity Research (2000), 2(2-3), 251-292 SOURCE:

CODEN: NURRFI; ISSN: 1029-8428

PUBLISHER: Harwood Academic Publishers DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

Synergistic antiparkinsonian actions of different classes of putative therapeutic agents coadministered with a subthreshold dose of L-dopa (5 mg/kg) in drug-naive, 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-treated mice, as well as the restorative actions of those compds. in suprathreshold-L-dopa-tolerant MPTP-treated mice subjected to "wearing-off" of L-dopa efficacy, were assessed. The classes of compds. studied included the noncompetitive NMDA antagonists memantine, amantadine and MK-801, the anticonvulsive and putative anticonvulsive agents

lamotrigine, FCE 26743, and phenytoin, the monoamine oxidase inhibitors L-deprenyl, amiflamine, α -ethyltryptamine, clorgyline and phenelzine, and the $\alpha 2$ -adrenoceptor agonists clonidine and guanfacine. The restorative effects of clonidine and guanfacine were antagonized by the $\alpha 2$ -adrenoceptor antagonist yohimbine, but not the $\alpha 1$ -adrenoceptor antagonist prazosin. Within each class of potentially therapeutic agents a differential restorative efficacy was obtained, but the combination of different doses of apomorphine with clonidine failed to restore motor activity. Finally, the neuroprotective actions of acute and subchronic administration of the nitrone spin-trapping compound α -phenyl-tert-Bu nitrone on the spontaneous motor behavior and striatal dopamine concess. of MPTP-treated mice were examined A considerable amount of review material is also presented in this paper.

IT 133865-89-1, FCE 26743

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(classes of compds. with protective or restorative effect in MPTP model of Parkinsonism in mice)

RN 133865-89-1 CAPLUS

CN

Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD

(4 CITINGS)

REFERENCE COUNT: 170 THERE ARE 170 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 25 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1991:228554 CAPLUS DOCUMENT NUMBER: 114:228554

ORIGINAL REFERENCE NO.: 114:38536h,38537a

TITLE: Preparation of α -(phenylalkylamino)carboxamides

as drugs

INVENTOR(S): Dostert, Philippe; Pevarello, Paolo; Heidempergher, Franco; Varasi, Mario; Bonsignori, Alberto; Roncucci,

PATENT ASSIGNEE(S): Farmitalia Carlo Erba S.r.l., Italy

SOURCE: Eur. Pat. Appl., 24 pp.

CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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EP	400495			A1		1990	1205	E	Р	1990-109950		19900525
EP	400495			В1		1993	1103					
	R: GR											
IL	94466			A		1995	0124	I	L	1990-109950 1990-94466 1990-3990 1990-2520 1990-2033190		19900522
ZA	9003990			A		1991	0327	Z	Α	1990-3990		19900523
CZ	281420			В6		1996	0911	C	Z	1990-2520		19900523
CA	2033190			A1		1990	1126	Č	A	1990-2033190		19900525
CA	2033190			C		2003	0408					
WO	9014334			A1		1990	1129	W	'n	1990-EP841		19900525
										3		
										LU, NL, SE		
CN	1047496		,	A		1990	1205	C	N	1990-103800		19900525
CN	1027588			C		1995	0208	_				
AU	9057299			A		1990	1218	A	п	1990-57299		19900525
AU	645752			B2		1994	0127			1990-103800 1990-57299		
EP	426816			A1		1991	0515	E	P	1990-908218		19900525
HU	55348	,	011,	A2		1991	0528	H	Ū.	1990-5133		19900525
JP	04500215	i		Т		1992	0116	J	P	1990-507938		19900525
JP	2771328			B2		1998	0702			I, LI, NL, SE 1990-5133 1990-507938 1990-109950 1990-109950 1990-344386 1991-270		
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ES	2062174			Т3		1994	1216	E	S	1990-109950		19900525
DD	298507			A5		1992	0227	D	D	1990-344386		19901002
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NO	179944			В		1996	1007					
NO	179944			С		1997	0115					
US	5236957			A		1993	0817	U	S	1991-646596		19910125
RU	2097371			C1		1997	1127	R	U	1992-5011522		19920319
US	5391577			A		1995	0221					
US	5502079			A		1996	0326	Ü	S	1994-343853 1989-12071		19941117
PRIORITY	APPLN.	INFO	. :					Ġ	В	1989-12071	A	19890525
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								E	P	1990-109950	A	19900525
								W	o	1990-EP841	A	19900525
										1991-646596		
										1993-65888		
OTHER SC	URCE(S):			MARE	'ΑΤ	114:	22855					
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AB Title compds. I [R = C1-8 alkyl, C3-8 cycloalkyl, furyl, thienyl, pyridyl, (substituted) Ph; Rl, R2 = H, C1-4 alkyl; R3 = H, (substituted) C1-4 alkyl; R4 = H; R3R4C = C3-6-cycloalkyl; R5, R5 = H, C1-6 alkyl; A = alkyl, (CH2)pX(CH2)q; l of p and q is 0 and the other is 0-4; X = 0, S; HN, C1-4 alkylimino; n = 0, l] and salts thereof, are prepared as antiepipelptic, anti-Parkinson, neuroprotective, antidepressant, antispastic, and (or) hypnotic agents. HZNCH2CONNL2.HCl in MeOH and NABH3CN were added under N to 4-(3-C1C6H40)C6H4CH0 to give I [RA = 4-(3-C1C6H4); R1-R6 = H; n = 0] as the HC1. (S)-I (RA = 4-PcH2RH; R1 = R2 = R4 = R5 = R6 = H; R3 = Me; n = 0) similarly prepared showed antagonism of convulsions induced by bicuculline, in mice at ED50 = 9 mg/kg, orally. Tablet formulations comprising I are given.

IT 133865-89-1P

GI

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological

study); PREP (Preparation)

(preparation of, as drug)

RN 133865-89-1 CAPLUS

Propanamide, 2-[[[4-[(3-fluorophenyl)methoxy]phenyl]methyl]amino]-, (2S)-(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

OS.CITING REF COUNT: 24 THERE ARE 24 CAPLUS RECORDS THAT CITE THIS RECORD (31 CITINGS)

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Sep 11, 2009 (20090911/UP).

=> s 13 and 1dopa

0 SAFINAMIDE

1 PARKINSON

0 LDOPA L4 0 L3 AND LDOPA

=> s L-DOPA 118 L

0 DOPA 5 0 L-DOPA

L5 U L-DOPA (L(W)DOPA)

=> s levadopa L6 0 LEVADOPA

=> s dopa

DOPA IS NOT A RECOGNIZED COMMAND

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L7 0 DOPA

=>